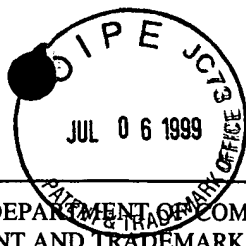


Sheet 1 of 5

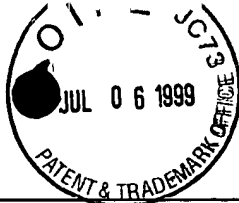
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Overgaard Bjarklev et al.			
				FILING DATE 3/31/99		GROUP ART UNIT 2874	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION No
PW		EP 0 810 453	3/97	Europe			
U		WO 99/00685	1/99	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
PW		J.C. Knight et al., Optical Materials, "Photonic Crystals as Optical Fibers - Physics and Applications", January 1999					
		T.A. Birks, et al., Electronics Letters, "Full 2-D Photonic Bandgaps in Silica/Air Structures", October 26, 1995, vol. 31, no. 22					
		J.C. Knight et al., Optics Letters, "All-silica Single-mode Optical Fiber With Photonic Crystal Cladding: Errata", April 1, 1997, vol. 22, no. 7					
		Jes Broeng et al, Electromagnetic Optics, "Waveguiding by the Photonic Band Gap Effect", September 1998					
J		Jes Broeng et al., Optics Communications 156, "Highly Increased Photonic Band Gaps in Silica/Air Structures", November 1998					
EXAMINER		PW JAT		DATE CONSIDERED 2/13/3			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Sheet 2 of 5

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
<i>pgm</i>			Stig E. Barkou, Optics Letters, "Silica-air Photonic Crystal Fiber Design That Permits Waveguiding by a True Photonic Bandgap Effect", January 1999, vol. 24, no. 1				
			Stig E. Barkou, et al., OFD/IOOC'99, Novel Fiber Structures, "Dispersion Properties of Photonic Bandgap Guiding Fibers", February 26, 1999				
			Anders Bjarklev, et al., EPOC'98, 20-24, "Dispersion Properties of Photonic Crystal Fibers", September 1998				
			J.C. Knight, et al., Optical Fiber Communication, "Pure Silica Single-mode Fiber With Hexagonal Photonic Crystal Cladding", February 29, 1996				
			J.C. Knight, et al., Optics Letters, "All-silica Single-mode Optical Fiber with Photonic Crystal Cladding", October 1, 1996, vol. 21, no. 19				
<i>✓</i>			T.A. Birks et al., Optics Letters, "Endlessly Single-mode Photonic Crystal Fiber", July 1, 1997, vol. 22, no. 13				
EXAMINER <i>[Signature]</i>				DATE CONSIDERED <i>2/13/3</i>			
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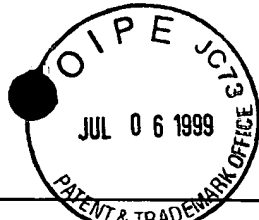
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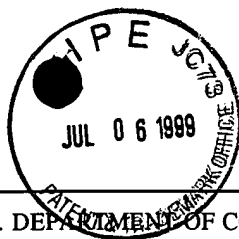


Sheet 3 of 5

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 3701-4000		SERIAL NO. 09/282,303	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
pm				J.C. Knight et al., Electronics Letters, "Large Mode Area Photonic Crystal Fiber", June 25, 1998, vol. 34, no. 13			
				J.C. Knight et al., Optical Society of America, "Properties of Photonic Crystal Fiber and the Effective Index Model", March 1998, vol. 15, no. 3			
				Philip St. J. Russell et al, Jpn. J. Appl. Phys, "Silica/Air Photonic Crystal Fibers", 1998, vol. 37			
				J.C. Knight et al., Applied Optics, "Bragg Scattering from an Obliquely Illuminated Photonic Crystal Fiber", January 20, 1998, vol. 37, no. 3			
				T.A. Birks et al., Photonic Band Gap Materials Kluwer 1996, "2D Photonic Band Gap Structures in Fiber Form", 1996			
✓				P. St. J. Russell et al., ECOC 97 Conference Publication, No. 448, "Photonic Crystal Fibers", September 1997			
EXAMINER				DATE CONSIDERED			
PAC				2/13/99			
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
P C A ↓			T.A. Birks et al., OFC/IOOC'99, Novel Fiber Structures, "The Analogy Between Photonic Crystal Fibers and Step Index Fibers", February 1999				
			T.A. Birks et al., OFC/IOOC'99, Novel Fiber Structures, "Single Material Fibers for Dispersion Compensation", February 1999				
			Robert S. Windeler et al., OFC/IOOC'99, Novel Fiber Structures, "Silica-air Microstructured Fibers: Properties and Applications", February 1999				
			Tanya M. Monro et al., OFC/IOOC'99, Novel Fiber Structures, "Efficient Modelling of Holey Fibers", February 1999				
			A. Ferrando et al., Optics Letters, "Full vector Analysis of a Realistic Photonic Crystal Fiber", March 1999, vol. 24, no. 5				
			A. Ferrando et al., Electronics letters, "Designing a Photonic Crystal Fiber With Flattened Chromatic Dispersion", February 1999, vol. 35, no. 4				
EXAMINER			DATE CONSIDERED				
P C A ↓			2/13/3				
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	APPLICANT Overgaard Bjarklev et al.	
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>Pln</i>			M.J. Gander et al., Electronics Letters, "Experimental Measurement of Group Velocity Dispersion in Photonic Crystal Fiber", January 7, 1999, vol. 35, no.1
<i>↓</i>			R.P. Espindola et al., Electronics Letters, "External Refractive Index Insensitive Air-clad Long Period Fiber Grating", February 18, 1999, vol. 35, no. 4

EXAMINER

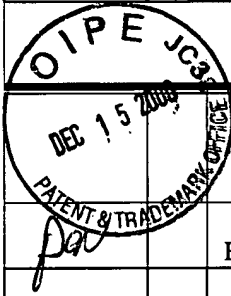
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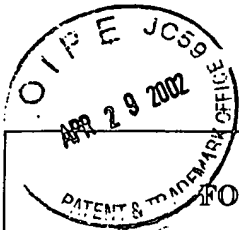
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		EP 0 905 834 A2		EPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)							
Pau			Jes Broeng et al., Center for Communications, Optics, and Materials (COM), "Polarization Properties of Photonic Bandgap Fibers".				
✓			Jes Broeng et al., Optics Letters, "Analysis of Air-Guiding Photonic Bandgap Fibers", January 15, 2000, vol. 25, no. 2.				
✓			Tanya M. Monro et al, Optics Letters, "Holey Fibers With Random Cladding Distributions", February 15, 2000, vol. 25, no. 4.				
EXAMINER <i>Pau</i>			DATE CONSIDERED <i>2/13/3</i>				
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INFORMATION DISCLOSURE CITATION

Attorney Docket:
3701-4000

Serial No.:
09/282,303

Applicant:
Broeng et al.

Filing Date:
March 31, 1999

Group Art Unit:
2877

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Name	Class	Sub-Class	Filing Date
pcw	5,802,236	Sep. 1, 1998	DiGiovanni et al.	385	127	Feb. 14, 1997

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
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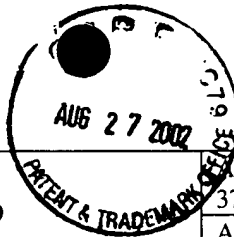
OTHER DOCUMENTS (Including Author, Title, Date, etc.)

pcw	D. Mogilevtsev et al., "Group-velocity Dispersion in Photonic Crystal Fibers", Optics Letters, November 1, 1998
✓	J.C. Knight et al., "Photonic Band Gap Guidance in Optical Fibers", Science, November 20, 1998

Examiner

Date Considered

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Broeng et al.

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March 31, 1999

Group Art Unit:
2877

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Name	Class	Sub-Class	Filing Date
PGW	6,404,966	6/11/02	Kawanishi et al.	385	125	5/6/99

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
PGW	WO 00/49436	8/24/00	Great Britan	G02B	6/17	<input type="checkbox"/> Yes <input type="checkbox"/> No
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OTHER DOCUMENTS (Including Author, Title, Date, etc.)

PGW	Broeng et al., Polarization Properties of Photonic Bandgap Fibres.
	Bjarklev, Microstructured Fibres, May 23-28, 1999. \
	Russell et al., Microscopic Glass Fibre Crystals. ✓
	Rosenberg et al., Out-of-plane two-dimensional photonic band structure effects observed in the visible spectrum, 9/9/97.
	Cassagne et al., Hexagonal photonic-band-gap structures, 10/19/95.
	Cassagne et al., Optical properties of two-dimensional photonic crystals with graphite structure, 11/13/96.
	Gadot et al., Experimental demonstration of complete photonic band gap in graphite structure, 7/24/97.
✓	Barra et al., Existence of two-dimensional absolute photonic band gaps in the visible, 12/6/94.

Examiner

PGW

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